

Amendments to the Claims

The following listing of claims will replace all prior versions and/or listings of claims in the application.

Listing of Claims:

1-35. (cancelled)

36. (currently amended): A system comprising:

a server configured to process business transactions;

a middleware program communicatively coupled to the server;

a domain file accessible by the middleware program, wherein the domain file comprises a list of allowable values associated with one or more business transactions;

a channel communicatively coupled to the middleware program and to the server; and

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an interface program communicatively coupled to the channel and to the middleware program, wherein the interface program is configured to receive data from the channel and a command that will initiate a business transaction;

wherein the interface program receives the data from the channel and transmits the data to the middleware program; wherein the middleware program determines whether portions of the received data include allowable values based on the domain file, and wherein the middleware program transforms the data into a form required by the ~~server, and~~ server and transmits the transformed data to the server.

37. (previously presented): The system of claim 36, wherein the middleware program receives a result from the business transaction server and transfers the result to the interface program.

38. (previously presented): The system of claim 36, wherein the channel comprises a kiosk.

39. (previously presented): The system of claim 36, wherein the channel comprises a computer terminal.

40. (previously presented): The system of claim 36, wherein the channel comprises a telephone call center.

41. (previously presented): The system of claim 36, wherein the channel comprises an electronic data transfer system.

42. (previously presented): The system of claim 36, wherein a local area network communicatively couples the channel to the server.

43. (previously presented): The system of claim 36, wherein a wide area network communicatively couples the channel to the server.

44. (previously presented): The system of claim 36, wherein portions of the domain file may be changed without changing code of the middleware program.

45. (previously presented): The system of claim 36, wherein the middleware program generates an error code if the portions of the received data include values that are not allowable values.

46. (previously presented): The system of claim 45, further comprising a domain manager, and wherein the domain file comprises at least one serialized file generated by the domain manager.

47. (previously presented): The system of claim 36, wherein the middleware program transfers data to a plurality of business transaction servers during the processing of a business transaction.

48. (previously presented): The system of claim 36, wherein the middleware program comprises computer code written in an object-oriented programming language.

49. (previously presented): The system of claim 36, wherein the middleware program is extendable without altering source code of the middleware program.

50. (previously presented): The system of claim 49, wherein an extension to the middleware program comprises computer code that is stored in a package and run when the middleware program runs.

51. (previously presented): A carrier medium that stores program instructions, wherein the program instructions are computer-executable to implement:

receiving data from one interface program of a plurality of interface programs, wherein each interface program is communicatively coupled to one of a plurality of channels;

determining whether a portion of received data includes values in a list of allowable values;

flattening the data; and

transferring the data to a business transaction server;

wherein the program instructions comprise a plurality of objects.

52. (previously presented): The carrier medium of claim 51, wherein the channel comprises a kiosk.

53. (previously presented): The carrier medium of claim 51, wherein the channel comprises a computer terminal.

54. (previously presented): The carrier medium of claim 51, wherein the channel comprises a telephone call center.

55. (previously presented): The carrier medium of claim 51, wherein the channel comprises an electronic data transfer system.

56. (previously presented): The carrier medium of claim 51, wherein a local area network communicatively couples the channel to the server.

57. (previously presented): The carrier medium of claim 51, wherein a wide area network communicatively couples the channel to the server.

58. (previously presented): The carrier medium of claim 51, further comprising a separate set of computer instructions that extend the functionality of the set of computer instructions.

59. (previously presented): The carrier medium of claim 51, further comprising at least one file that stores the list of allowable values.

60. (previously presented): The carrier medium of claim 51, wherein the program instructions are further computer-executable to implement:

receiving a result from the business transaction server;

inflating the result; and

transferring the result to the interface program.

61. (currently amended): A method of performing a business transaction on a computer system using a user interface program, a middleware program, and a business transaction server, comprising:

entering data into a channel that communicatively couples to the user interface;

transferring the data to the middleware program;

determining whether a portion of the data includes values in a list of allowable values, wherein if the portion of the data does not include values in a list of allowable values, notifying the user interface, and receiving corrected data;

transforming the data into a form required by the business transaction server using the middleware program;

transferring the data to the business transaction server using the middleware program; and

processing the data using the business transaction server.

62. (previously presented): The method of claim 61, further comprising transferring results from the business transaction server to the middleware program, and transferring results from the middleware program to the user interface.

63. (previously presented): The method of claim 62, wherein the middleware program transforms the results into a form recognizable to the user interface program before transmitting the results to the user interface.

64. (previously presented): The method of claim 61, further comprising generating an error code if an entered data value is not included in the list of allowable values.

65. (previously presented): The method of claim 64, wherein the list of allowable values is located in serialized files during use.

66. (previously presented): The method of claim 65, wherein the serialized domain files are generated from domain files by a domain manager.

67. (previously presented): The method of claim 61, wherein the middleware program determines if all required data to process the business transaction is present before transferring the data to the business transaction server, and wherein the middleware program generates an error code if all the required data is not present before the data is transferred to the business transaction server.

68. (previously presented): The method of claim 61, wherein the middleware program orders the data into an order required by the business transaction server before transferring the data to the business transaction server.

69. (previously presented): The method of claim 61, wherein the middleware program transfers data to and receives results from a plurality of business transaction servers during processing of the business transaction.

70. (previously presented): The method of claim 61, wherein the business transaction server comprises a legacy program.

71. (new): The method of claim 36, further comprising determining if the received data comprises data required to perform the initiated business transaction.

72. (new): The method of claim 36, further comprising placing the received data in order prior to transferring the data to the server.

73. (new): The method of claim 51, further comprising determining if the received data comprises data required to perform a business transaction.

74. (new): The method of claim 51, further comprising placing the received data in order

prior to transferring the data to the server.

75. (new): The method of claim 61, further comprising placing the data in order prior to transferring the data to the server.
